

[11] **Patent/Publication Number:** JP03056797A

[43] **Publication Date:** Mar. 12, 1991

[54] **INSULATION CONSTRUCTION FOR LOW TEMPERATURE TANK**

[72] **Inventor(s):**

BABA HITOSHI

HAYASHI HISAAKI

FUJIMURA HISAO

YASUNAGA MASAMICHI

[71] **Assignee/Applicant:**

NICHIAS CORP

[30] **Priority:**

JP Apr. 26, 1989 64 48988

[21] **Application Number:** 01203740 JP01203740 JP

[22] **Application Date:** Aug. 08, 1989

[51] **Int. Cl.⁵:** F17C00304 F17C01308

[57] **ABSTRACT**

PURPOSE: To improve insulating performance by sandwiching a main insulation layer comprising a foamed synthetic resin board with an insulation concrete layer, and preventing moisture contained in the insulation concrete and a liquid leaking from a tank from entering the insulation layer.

CONSTITUTION: A low temperature tank such as an LNG storage tank is made of an inner reservoir side plate 1a and an outer reservoir side plate 2a having a foamed synthetic resin board 9 and an insulation concrete layer 10 filled in between the aforesaid side plates 1a and 2a sandwiching moisture and liquid proof sheet material 8e. Also, a level insulation concrete layer 3 is laid between an outer reservoir bottom plate 2b and an inner reservoir bottom plate 1b, and an intermediate insulation concrete layer 4 and a plurality of foamed synthetic resin boards 6 are laid on the aforesaid layer 3. Furthermore, the aforementioned lamination construction is so made as to sandwich the boards 6 via sheet materials 8a to 8d. According to the aforesaid construction, insulating performance can be substantially improved. In addition, even if an accident of liquid leakage from the tank should happen, safety can be ensured for the insulation layers and the outer reservoir bottom and side plates.

COPYRIGHT: (C)1991,JPO&apio

* * * * *